

**LIMITED PHASE II ASSESSMENT
FORMER ORE MILL SITE
21.4 ACRE PARCEL
NORTH LA CHOLLA AND SPEEDWAY
TUCSON, PIMA COUNTY, ARIZONA**

Kleinfelder Project No.: 74053

Prepared for:

City of Tucson Environmental Services
100 North Stone Avenue, 2nd Floor
PO Box 27210
Tucson, Arizona 85726-7210

Prepared by:

KLEINFELDER, INC.
2015 North Forbes Boulevard, Suite 103
Tucson, Arizona 85745

August 30, 2006

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August 30, 2006

File No.: 74053

Mr. Richard Byrd
City of Tucson Environmental Services
100 North Stone Avenue, 2nd Floor
PO Box 27210
Tucson, Arizona 85726-7210

SUBJECT: Limited Phase II Assessment
Former Ore Mill Site – 21.4 Acre Parcel
North La Cholla and Speedway Boulevards
Tucson, Pima County, Arizona

Dear Mr. Byrd:

Kleinfelder, Inc. (Kleinfelder) is pleased to submit this Limited Phase II Assessment report to City of Tucson Environmental Services for the above-referenced property (site) in Tucson, Arizona.

Eighteen soil samples were submitted to Aerotech Environmental Laboratories for total metals analyses using Environmental Protection Agency (EPA) Test Methods 6010B and 7471A. The samples were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury.

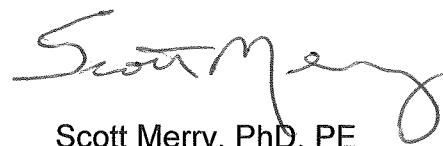
We appreciate the opportunity to provide professional consulting services for this project. Should you have any questions or if we may be of some additional service, please contact the undersigned at (520) 628-7769.

Sincerely,

KLEINFELDER, INC.



Rick D. Smith, CPG
Project Professional



Scott Merry, PhD, PE
Senior Engineer

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1. INTRODUCTION

Kleinfelder Inc. (Kleinfelder) was retained by City of Tucson Environmental Services to conduct a Limited Phase II Assessment at a former ore mill site located west of Silverbell Road and north of Speedway Boulevard in Tucson, Pima County, Arizona. The legal description of the area is SW ¼ of Section 3, Township 14 South. This report references Arizona Department of Environmental Quality (ADEQ) residential and non-residential Soil Remediation Levels (SRLs) and summarizes the field activities, results, and conclusions of laboratory analyses associated with the soil sampling. The samples were collected from 0.5-1.0 feet below ground surface (bgs) at 18 locations (B-1 through B-18). The scope of work for this project was outlined in Kleinfelder's *Limited Phase II Assessment* proposal dated June 2006. The intent of this assessment was to collect shallow soil samples at the former ore mill site and evaluate the results for the presence of metals concentrations in comparison to the State of Arizona's soil remediation levels.

2. PROJECT BACKGROUND

The property is located on the north side of Speedway Boulevard between Greasewood and Silverbell Roads near the proposed extension of La Cholla Boulevard. Based on information provided by the City of Tucson (the City), the City is considering improving the property for use as an open space park. Historically, an ore mill operated on the property to process tungsten during World War II. The structures and equipment for the ore mill no longer exist. Two concrete structures (possible settling basins) and the concrete footings for a structure that contained at least four rooms are present. Possible ore piles are located between a concrete slab and a small pit next to the footings. In addition, a circular slab for a former water tank and a small brick foundation are present at the site. Possible ore fragments (dark gravel) are present on each side of the dirt road south of the mill.

The City has owned the property since the early 1900s. In response to a possible change of use for the site, Desert Archaeology prepared a letter report, dated August 3, 1993, for the property. In addition, EnviroMD, Inc. prepared a Phase I Environmental Site Assessment (ESA) for the property, dated September 20, 1993. In March 1997, in response to a possible sale of the site, the City of Tucson Environmental Management Department prepared a review summary of Desert Archaeology's four-year old letter report and the four-year old Phase I ESA prepared by EnviroMD, Inc. This summary presented the on-site mill tailings as potential environmental concerns with cost estimates for soil sample collection and analysis. The property transaction stalled, with no further actions taken in 1997. In 2006, City of Tucson Parks and Recreation began considering the property for use as an open space park with walking trails and interpretative signage.

3. PROJECT OBJECTIVES

3.1. Purpose and Scope

The purpose of this investigation was to evaluate metals concentrations in soil, sediment, and material (ore) samples from various locations in and around the former ore mill with respect to ADEQ residential and non-residential SRLs.

3.2. Data Quality

Kleinfelder implemented the procedures outlined in our proposal to provide that the data collected was of known and documented quality and useful for decision-making purposes. In accomplishing these goals, data collected during the project was definitive data. Definitive data measures chemical analysis (inorganic parameters) using Environmental Protection Agency (EPA) procedures and produces information that can be used in risk assessments, site characterizations, and remedial alternative evaluations.

The eighteen soil samples were submitted to Aerotech Environmental Laboratories (Aerotech) for chemical analyses. Aerotech is certified by the State of Arizona, and has an in-house program for data reduction, validation, and reporting. The reliability and credibility of analytical laboratory results is corroborated by the inclusion of a program of scheduled replicate analyses and analyses of standard or spiked samples. Regularly scheduled analyses of known duplicates, standards, and spiked samples are a routine aspect of data reduction, validation, and reporting procedures.

3.3. Sample Analyses Summary

Eighteen samples were collected from the site. Soil sample S-1 was collected from the dark colored ore along the concrete slab; soil samples S-2, S-3, S-4, and S-5 were collected from the pit and dark ore piles; soil sample S-8 was collected from the

sediment in the east settling basin; soil samples S-6, S-7, S-9, S-10, S-11, S-12 and S-13 were collected from soil within the footprint (or footings) of the former ore mill structure; soil sample S-14 was collected from between the concrete piers on the north side of the ore mill near the wash; soil sample S-15 was collected approximately 600 feet east of the ore mill at the end of a 6-inch diameter, riveted steel drain pipe; and soil sample S-16 was collected from within a small brick foundation. Soil samples S-17 and S-18 were collected as background samples from distant locations west and east of the former ore mill.

The soil samples were submitted to Aerotech Environmental Laboratories for analysis. The samples were analyzed for Total RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, silver, mercury, and selenium) by U.S. Environmental Protection Agency (EPA) Methods 6010B and 7471A.

4. FIELD ACTIVITIES

4.1. Sampling

Prior to sample collection, each sample location was marked with a pin flag in accordance with the proposed locations. A total of nineteen locations were originally marked, however a sample was not collected from the west sediment basin due to rainwater. Eighteen samples were collected from 0.5 to 1.0 feet bgs at the site using a stainless steel hand auger along with a pick axe. A pick axe was used to loosen the surface, followed by advancement of a hand auger.

4.2. Sample Containers and Preservation

Due to the hard, rocky soil, non-discrete soil samples were collected using a hand auger and then immediately transferred to decontaminated brass sleeves. The brass sleeves were sealed using a Teflon® patch placed under a tight-fitting plastic cap. The brass sleeves were decontaminated prior to use, stored in sealed boxes, and kept isolated to prevent exposure to fuels, solvents, dirt, and other potential contaminants. The soil samples were collected, handled, and transferred to the laboratory in accordance with standard industry protocols and chain-of-custody documentation.

4.3. Site Restoration

Kleinfelder backfilled each sample location with cuttings and replaced the pin flag for future reference.

4.4. Equipment Decontamination

During sampling activities, field personnel performed appropriate decontamination measures to reduce sample contamination between samples. Decontamination

procedures were consistent with those outlined in "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods" (U.S. EPA SW-846, 3rd ed.).

Field personnel decontaminated the sampling equipment used in the collection of samples before and after each sample. Kleinfelder personnel wore new, disposable gloves while decontaminating sampling equipment and tools. Decontaminated sampling equipment was not placed on the ground or other contaminated surfaces between sampling locations.

The decontamination procedures were as follows:

- pre-rinse with purified municipal water to dislodge soil or waste sample remains;
- wash in water with approximately 0.01% laboratory grade non-phosphate detergent (e.g. Liqu-Nox®);
- rinse with purified municipal water; and,
- rinse with water from the approved water supply (distilled or reagent grade water);

4.5. Sample Identification and Labeling

An identification number was assigned to each sample. Labels bearing job designation, time, sample depth interval, sample ID, date sampled, and the initials of the sampler were affixed to the containers of the collected samples.

4.6. Sample Packaging and Shipping

Samples were transported under strict chain-of-custody protocol after sample collection to the laboratory for analyses. The samples were enclosed in a plastic bag and stored in a cooler maintained at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. Field personnel used the following procedures when packing and transporting samples to the laboratory:

- Samples placed in waterproof, plastic ice chests.
- Attached a label to the top of container that identified the name of the project and Kleinfelder as the contact for the samples.

- Packaged wet ice in plastic bags and place a "layer" of bags at the bottom of the ice chest.
- Packaged soil samples in individual plastic bags prior to placement in the ice chest.
- Put paperwork (chain-of-custody record, etc.) in a waterproof plastic bag and taped it to the inside lid of the ice chest.
- Taped the container shut with fiber-reinforced tape.
- Hand delivered the ice chest and samples the contract laboratory.

5. ANALYTICAL RESULTS

5.1. Analytical Results

TABLE 1
Total Metals Concentrations, mg/Kg (ppm)
Former Ore Mill Site

Sample ID	Depth (ft. bgs)	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
S-1-0.5-1.0	0.5-1.0	41	94	19	5.3	6,600	<5.0	2.6	0.40
S-2-0.5-1.0	0.5-1.0	120	92	19	7.3	15,000	<5.0	4.1	0.24
S-3-0.5-1.0	0.5-1.0	56	130	7.3	2.9	1,900	<5.0	<2.5	0.25
S-4-0.5-1.0	0.5-1.0	130	76	43	17	28,000	<5.0	3.7	0.52
S-5-0.5-1.0	0.5-1.0	1,500	110	6.4	6.8	8,300	<5.0	48	4.0
S-6-0.5-1.0	0.5-1.0	64	86	10	20	6,100	<25	<12	0.14
S-7-0.5-1.0	0.5-1.0	37	80	4.4	13	6,200	<25	<12	0.19
S-8-0.5-0.8	0.5-0.8	63	100	6.7	25	6,000	<25	<12	0.34
S-9-0.5-1.0	0.5-1.0	91	160	21	42	13,000	48	16	0.71
S-10-0.5-1.0	0.5-1.0	65	110	14	20	7,900	<25	<12	0.43
S-11-0.5-1.0	0.5-1.0	53	150	3.8	12	2,100	<25	<12	<0.10
S-12-0.5-1.0	0.5-1.0	58	100	17	19	4,000	<25	<12	0.23
S-13-0.5-1.0	0.5-1.0	140	130	16	34	4,100	<25	<12	0.23
S-14-0.5-1.0	0.5-1.0	70	90	41	23	14,000	<25	<12	0.25
S-15-0.5-1.0	0.5-1.0	<25	280	<2.5	11	<25	<25	<12	<0.10
S-16-0.5-1.0	0.5-1.0	37	260	4.5	34	1,900	68	<12	<0.10
S-17-0.5-1.0	0.5-1.0	<25	120	6.6	11	160	<25	<12	<0.10
S-18-0.5-1.0	0.5-1.0	<25	92	<2.5	11	160	<25	<12	<0.10
RSRL	---	10	5,300	38	2,100	400	380	380	6.7*
NRSRL	---	10	110,000	850	4,500	2,000	8,500	8,500	180*
TCLP Standards mg/L (ppm)									
TCLP 40CFR 261.24	---	5.0	100.0	1.0	5.0	5.0	1.0	5.0	0.2

mg/Kg (ppm) = milligrams per kilogram or parts per million

mg/L (ppm) = milligrams per liter or parts per million

ft. bgs = feet below ground surface

RSRL = Residential Soil Remediation Level

NRSRL = Non-residential Soil Remediation Level

Bold = Exceeds RSRL

* RSRL and NRSRL for elemental mercury

6. CONCLUSIONS

6.1. Soil Remediation Levels

Fifteen of the eighteen soil samples collected exceeded the ADEQ residential SRL of 400 mg/Kg for lead. Concentrations of lead ranged from <25 mg/Kg in soil sample S-15 to 28,000 mg/Kg in SB-4. Fifteen soil samples exceeded the ADEQ residential SRL of 10 mg/Kg for arsenic. Concentrations of arsenic ranged from <25 mg/Kg in background soil samples S-17 and S-18 to 1,500 mg/Kg in SB-5. Two soil samples exceeded the ADEQ residential SRL of 38 mg/Kg for cadmium. Concentrations of cadmium ranged from <2.5 mg/Kg in soil sample S-15 and background soil sample S-18 to 43 mg/Kg in SB-4. Concentrations of barium, chromium, selenium, silver, and mercury were not detected at or above the residential SRLs.

The laboratory reporting limit (LRL) of 25 mg/Kg for arsenic exceeded the residential SRL of 10 mg/Kg soil samples S-15, S-17 and S-18. The concentrations of arsenic detected in these samples could be naturally occurring.

6.2. Additional Analysis

Soil samples S-4, S-5, S-9, S-13, and S-14, contained the highest concentrations of arsenic, cadmium, and lead. The toxicity characteristic leachate procedure (TCLP) analysis by EPA Methods 6000 and 7000 was requested on these five samples. The laboratory test results for TCLP are pending and will be reported under separate cover.

6.3. Additional Site Characterization

Additional sample collection and analysis is being planned to further characterize the horizontal and vertical extent of the impacted soils in the vicinity of the former ore processing facility.

7. LIMITATIONS

7.1. Limitations

This letter report was prepared in accordance with the scope of work described in Kleinfelder's proposal to the City, dated June 27, 2006. The work conducted by Kleinfelder is limited to the services explicitly stated and agreed to in the proposal and no warranty, either expressed or implied, is made.

The information provided by Kleinfelder may be used by the City and their affiliates for the purposes stated, within a reasonable time from its issuance. The scope of services performed during this investigation may not be appropriate for other users, and any use or re-use of this document or the findings presented herein are at the sole risk of said user. This report is intended for use in its entirety. No excerpts may be taken to be representative of the findings of this assessment. Land or facility use, on and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the City and their affiliates who would like to rely on this report must notify Kleinfelder of such intended use and comply with Kleinfelder's standard third-party reliance requirements, up to and including performance of additional site work. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and client agrees to defend, indemnify, and hold Kleinfelder harmless from any claim or liability associated with such unauthorized use or non-compliance.

The services performed by Kleinfelder were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in Arizona. The property owner is solely responsible for notifying governmental agencies, if required, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site, either before, during, or after performance of Kleinfelder's services. Kleinfelder assumes no responsibility or liability for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being

encountered or present on the project site, or from the discovery of such hazardous materials.

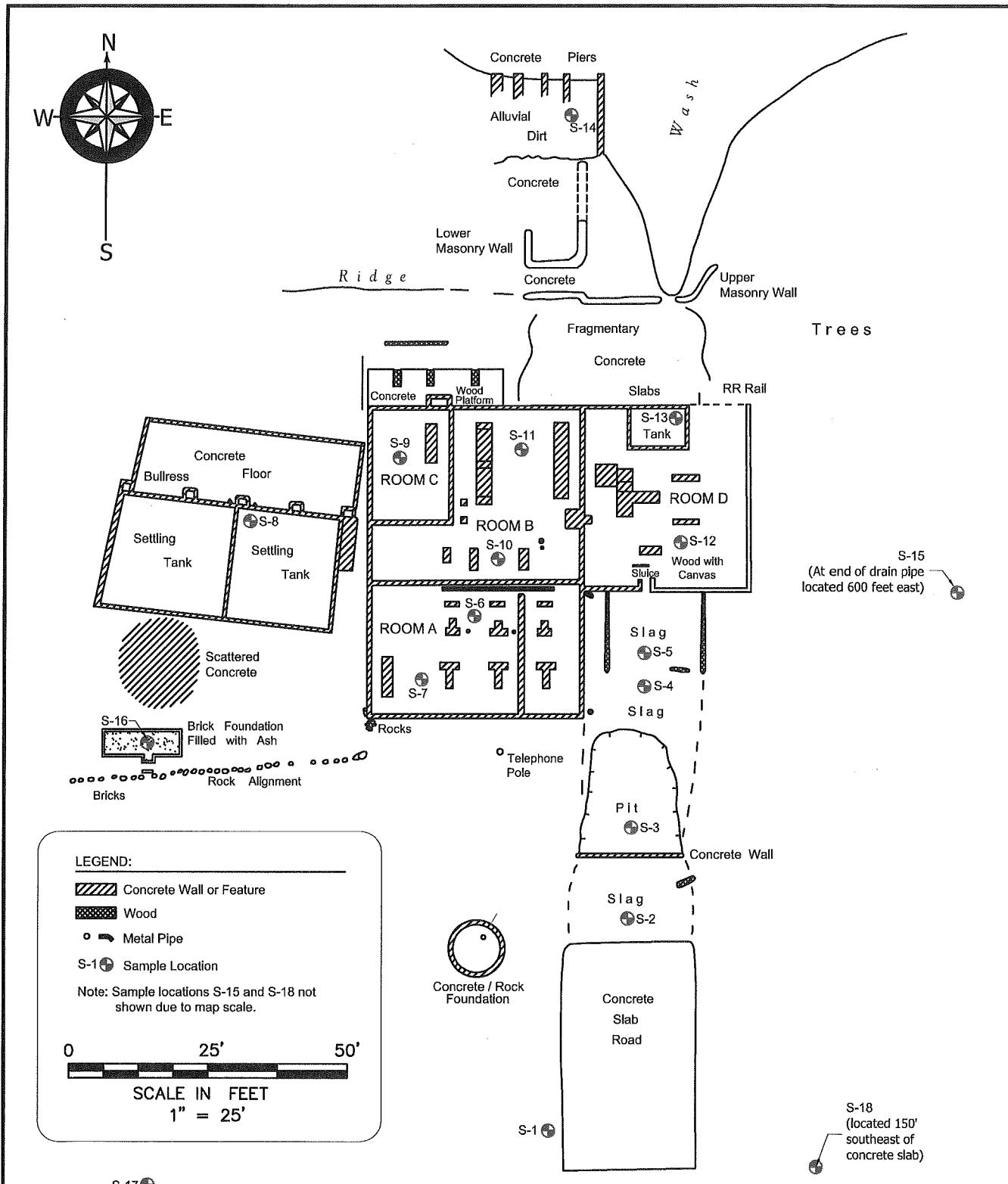
The discussion and conclusions presented in this report are based on the following:

- laboratory results provided by Aerotech Environmental Laboratories;
- field observations by Kleinfelder personnel,;
- information provided by the City; and
- an understanding of the regulations of the State of Arizona.

It is possible that variations in subsurface conditions could exist beyond the points explored in this investigation due to site subsurface conditions that influence the limit and selection of exploration points. Also, changes in conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

APPENDIX A

Figure 1 - Sampling Locations



 KLEINFELDER 1335 WEST AUTO DRIVE TEMPE, AZ 85284 PH. 480-763-1200 FAX. 480-763-1212 www.kleinfelder.com	SITE PLAN SAMPLING LOCATIONS		DRAWN BY: S. Guedamour REVISED BY: S. Guedamour CHECKED BY: R. Smith FIGURE 1
	LIMITED PHASE II ASSESSMENT FORMER ORE MILL SITE - 21.4 ACRE PARCEL N. SIDE OF SPEEDWAY BETWEEN GREASEWOOD & SILVERBELL RD TUCSON, PIMA COUNTY, ARIZONA	PROJECT NO. 74053	
DRAWN: August 2006	APPROVED BY: _____	FILE NAME: 74053-SPlan.dwg	(C) by Kleinfelder Inc., 2006

APPENDIX B

Laboratory Reports and Chain-of-Custody Documentation



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Friday, August 11, 2006

Rick Smith
Kleinfelder
2015 N. Forbes Blvd
Tucson, AZ 85745

TEL: (520) 628-7769
FAX: (520) 628-7835

RE: City of Tucson-Oil Mill/74053

RECEIVED
AUG 24 2006

Dear Rick Smith:

Order No.: 06071057

Aerotech Environmental, Inc. received 18 sample(s) on 7/31/2006 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Korky Vault
Service Center Manager



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental, Inc.

Date: 11-Aug-06

CLIENT: Kleinfelder
Project: City of Tucson-Oil Mill/74053
Lab Order: 06071057

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
06071057-01A	S-1-0.5-1.0		7/31/2006 1:55:00 PM	7/31/2006
06071057-02A	S-2-0.5-1.0		7/31/2006 2:00:00 PM	7/31/2006
06071057-03A	S-3-0.5-1.0		7/31/2006 2:10:00 PM	7/31/2006
06071057-04A	S-4-0.5-1.0		7/31/2006 2:15:00 PM	7/31/2006
06071057-05A	S-5-0.5-1.0		7/31/2006 2:20:00 PM	7/31/2006
06071057-06A	S-6-0.5-1.0		7/31/2006 2:22:00 PM	7/31/2006
06071057-07A	S-7-0.5-1.0		7/31/2006 2:25:00 PM	7/31/2006
06071057-08A	S-8-0.5-0.8		7/31/2006 2:30:00 PM	7/31/2006
06071057-09A	S-9-0.5-1.0		7/31/2006 2:33:00 PM	7/31/2006
06071057-10A	S-10-0.5-1.0		7/31/2006 2:35:00 PM	7/31/2006
06071057-11A	S-11-0.5-1.0		7/31/2006 2:40:00 PM	7/31/2006
06071057-12A	S-12-0.5-1.0		7/31/2006 2:45:00 PM	7/31/2006
06071057-13A	S-13-0.5-1.0		7/31/2006 2:50:00 PM	7/31/2006
06071057-14A	S-14-0.5-1.0		7/31/2006 2:55:00 PM	7/31/2006
06071057-15A	S-15-0.5-1.0		7/31/2006 3:00:00 PM	7/31/2006
06071057-16A	S-16-0.5-1.0		7/31/2006 3:10:00 PM	7/31/2006
06071057-17A	S-17-0.5-1.0		7/31/2006 3:15:00 PM	7/31/2006
06071057-18A	S-18-0.5-1.0		7/31/2006 3:20:00 PM	7/31/2006



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental, Inc.

Date: 11-Aug-06

CLIENT: Kleinfelder
Project: City of Tucson-Oil Mill/74053
Lab Order: 06071057

CASE NARRATIVE

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Organic Compounds in Drinking Water: Supplement III, EPA/600/R-95/131, August 1995.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1998. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Aerotech Environmental Laboratories (AEL) holds Arizona certification no. AZ0610 and AEL-Tucson holds Arizona certification no. AZ0609.

Aerotech Environmental Laboratories (Laboratory ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

Data Qualifiers:

Listed below are the data qualifiers used in your analytical report to explain any analytical or quality control issues. You will find them noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

- D1 Sample required dilution due to matrix.
- D2 Sample required dilution due to high concentration of target analyte.
- M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
- M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.00.
- M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000.
- R9 Sample RPD exceeded the laboratory control limit.

Z18 Sample diluted due to high concentration of target analytes flagged with D2 qualifier.

Sample required dilution because the sample matrix affected the recovery of the internal standard when analyzed undiluted.



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-1-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 1:55:00 PM
Lab ID:	06071057-01A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	41	5.0		mg/Kg	1	8/3/2006
Barium	94	5.0		mg/Kg	1	8/3/2006
Cadmium	19	0.50		mg/Kg	1	8/3/2006
Chromium	5.3	2.0		mg/Kg	1	8/3/2006
Lead	6600	25	D2	mg/Kg	5	8/3/2006
Selenium	< 5.0	5.0		mg/Kg	1	8/3/2006
Silver	2.6	2.5		mg/Kg	1	8/3/2006
MERCURY, TOTAL						
Mercury	0.40	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

- (1) AEL - Tucson Laboratory
- (2) AEL - Knudsen Laboratory

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- (3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-2-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:00:00 PM
Lab ID:	06071057-02A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	120	5.0		mg/Kg	1	8/3/2006
Barium	92	5.0		mg/Kg	1	8/3/2006
Cadmium	19	0.50		mg/Kg	1	8/3/2006
Chromium	7.3	2.0		mg/Kg	1	8/3/2006
Lead	15000	25	D2	mg/Kg	5	8/3/2006
Selenium	< 5.0	5.0		mg/Kg	1	8/3/2006
Silver	4.1	2.5		mg/Kg	1	8/3/2006
MERCURY, TOTAL						
Mercury	0.24	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.

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Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-3-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:10:00 PM
Lab ID:	06071057-03A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	56	5.0		mg/Kg	1	8/3/2006
Barium	130	5.0		mg/Kg	1	8/3/2006
Cadmium	7.3	0.50		mg/Kg	1	8/3/2006
Chromium	2.9	2.0		mg/Kg	1	8/3/2006
Lead	1900	5.0		mg/Kg	1	8/3/2006
Selenium	< 5.0	5.0		mg/Kg	1	8/3/2006
Silver	< 2.5	2.5		mg/Kg	1	8/3/2006
MERCURY, TOTAL						
Mercury	0.25	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.

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Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-4-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:15:00 PM
Lab ID:	06071057-04A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	130	5.0		mg/Kg	1	8/3/2006
Barium	76	5.0		mg/Kg	1	8/3/2006
Cadmium	43	0.50		mg/Kg	1	8/3/2006
Chromium	17	2.0		mg/Kg	1	8/3/2006
Lead	28000	100	D2	mg/Kg	20	8/10/2006
Selenium	< 5.0	5.0		mg/Kg	1	8/3/2006
Silver	3.7	2.5		mg/Kg	1	8/3/2006
MERCURY, TOTAL						
Mercury	0.52	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-5-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:20:00 PM
Lab ID:	06071057-05A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	1500	5.0		mg/Kg	1	8/3/2006
Barium	110	5.0		mg/Kg	1	8/3/2006
Cadmium	6.4	0.50		mg/Kg	1	8/3/2006
Chromium	6.8	2.0		mg/Kg	1	8/3/2006
Lead	8300	25	D2	mg/Kg	5	8/3/2006
Selenium	< 5.0	5.0		mg/Kg	1	8/3/2006
Silver	48	2.5		mg/Kg	1	8/3/2006
MERCURY, TOTAL						
Mercury	4.0	0.50	D2	mg/Kg	5	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-6-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:22:00 PM
Lab ID:	06071057-06A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	64	25	D2	mg/Kg	5	8/3/2006
Barium	86	25	D2	mg/Kg	5	8/3/2006
Cadmium	10	2.5	D2	mg/Kg	5	8/3/2006
Chromium	20	10	D2	mg/Kg	5	8/3/2006
Lead	6100	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.14	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.

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Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-7-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:25:00 PM
Lab ID:	06071057-07A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	37	25	D2	mg/Kg	5	8/3/2006
Barium	80	25	D2	mg/Kg	5	8/3/2006
Cadmium	4.4	2.5	D2	mg/Kg	5	8/3/2006
Chromium	13	10	D2	mg/Kg	5	8/3/2006
Lead	6200	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.19	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-8-0.5-0.8
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:30:00 PM
Lab ID:	06071057-08A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	63	25	D2	mg/Kg	5	8/3/2006
Barium	100	25	D2	mg/Kg	5	8/3/2006
Cadmium	6.7	2.5	D2	mg/Kg	5	8/3/2006
Chromium	25	10	D2	mg/Kg	5	8/3/2006
Lead	6000	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.34	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-9-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:33:00 PM
Lab ID:	06071057-09A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	91	25	D2	mg/Kg	5	8/3/2006
Barium	160	25	D2	mg/Kg	5	8/3/2006
Cadmium	21	2.5	D2	mg/Kg	5	8/3/2006
Chromium	42	10	D2	mg/Kg	5	8/3/2006
Lead	13000	25	D2	mg/Kg	5	8/3/2006
Selenium	48	25	D2	mg/Kg	5	8/3/2006
Silver	16	12	D2	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.71	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-10-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:35:00 PM
Lab ID:	06071057-10A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	65	25	D2	mg/Kg	5	8/3/2006
Barium	110	25	D2	mg/Kg	5	8/3/2006
Cadmium	14	2.5	D2	mg/Kg	5	8/3/2006
Chromium	20	10	D2	mg/Kg	5	8/3/2006
Lead	7900	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.43	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-11-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:40:00 PM
Lab ID:	06071057-11A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	53	25	D2	mg/Kg	5	8/3/2006
Barium	150	25	D2	mg/Kg	5	8/3/2006
Cadmium	3.8	2.5	D2	mg/Kg	5	8/3/2006
Chromium	12	10	D2	mg/Kg	5	8/3/2006
Lead	2100	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	< 0.10	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

- (1) AEL - Tucson Laboratory
- (2) AEL - Knudsen Laboratory

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- (3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-12-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:45:00 PM
Lab ID:	06071057-12A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	58	25	D2	mg/Kg	5	8/3/2006
Barium	100	25	D2	mg/Kg	5	8/3/2006
Cadmium	17	2.5	D2	mg/Kg	5	8/3/2006
Chromium	19	10	D2	mg/Kg	5	8/3/2006
Lead	4000	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.23	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.

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Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-13-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:50:00 PM
Lab ID:	06071057-13A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	140	25	D2	mg/Kg	5	8/3/2006
Barium	130	25	D2	mg/Kg	5	8/3/2006
Cadmium	16	2.5	D2	mg/Kg	5	8/3/2006
Chromium	34	10	D2	mg/Kg	5	8/3/2006
Lead	4100	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.23	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.

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Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-14-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 2:55:00 PM
Lab ID:	06071057-14A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	70	25	D2	mg/Kg	5	8/3/2006
Barium	90	25	D2	mg/Kg	5	8/3/2006
Cadmium	41	2.5	D2	mg/Kg	5	8/3/2006
Chromium	23	10	D2	mg/Kg	5	8/3/2006
Lead	14000	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	0.25	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-15-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 3:00:00 PM
Lab ID:	06071057-15A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	< 25	25	D1	mg/Kg	5	8/3/2006
Barium	280	25	D2	mg/Kg	5	8/3/2006
Cadmium	< 2.5	2.5	D1	mg/Kg	5	8/3/2006
Chromium	11	10	D2	mg/Kg	5	8/3/2006
Lead	< 25	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	< 0.10	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-16-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 3:10:00 PM
Lab ID:	06071057-16A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	37	25	D2	mg/Kg	5	8/3/2006
Barium	260	25	D2	mg/Kg	5	8/3/2006
Cadmium	4.5	2.5	D2	mg/Kg	5	8/3/2006
Chromium	34	10	D2	mg/Kg	5	8/3/2006
Lead	1900	25	D2	mg/Kg	5	8/3/2006
Selenium	68	25	D2	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	< 0.10	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.

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Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-17-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 3:15:00 PM
Lab ID:	06071057-17A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	< 25	25	D2	mg/Kg	5	8/3/2006
Barium	120	25	D2	mg/Kg	5	8/3/2006
Cadmium	6.6	2.5	D2	mg/Kg	5	8/3/2006
Chromium	11	10	D2	mg/Kg	5	8/3/2006
Lead	160	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	< 0.10	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



Aerotech Environmental Laboratories

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Aerotech Environmental, I

Analytical Report

Date: 11-Aug-06

CLIENT:	Kleinfelder	Client Sample ID:	S-18-0.5-1.0
Lab Order:	06071057	Tag Number:	
Project:	City of Tucson-Oil Mill/74053	Collection Date:	7/31/2006 3:20:00 PM
Lab ID:	06071057-18A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS						
Arsenic	< 25	25	D1	mg/Kg	5	8/3/2006
Barium	92	25	D2	mg/Kg	5	8/3/2006
Cadmium	< 2.5	2.5	D2	mg/Kg	5	8/3/2006
Chromium	11	10	D2	mg/Kg	5	8/3/2006
Lead	160	25	D2	mg/Kg	5	8/3/2006
Selenium	< 25	25	D1	mg/Kg	5	8/3/2006
Silver	< 12	12	D1	mg/Kg	5	8/3/2006
MERCURY, TOTAL						
Mercury	< 0.10	0.10		mg/Kg	1	8/3/2006

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory

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(3) The holding time for pH analysis is immediate. For the most accurate result, the pH should be taken in the field within 15 minutes of sampling.



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Aerotech Environmental, Inc.

11-Aug-06

Lab Order: 06071057

Client: Kleinfelder

Project: City of Tucson-Oil Mill/74055

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
06071057-01A	S-1-0.5-1.0	7/31/2006 1:55:00 PM	Soil	ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-02A	S-2-0.5-1.0	7/31/2006 2:00:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-03A	S-3-0.5-1.0	7/31/2006 2:10:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-04A	S-4-0.5-1.0	7/31/2006 2:15:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-05A	S-5-0.5-1.0	7/31/2006 2:20:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-06A	S-6-0.5-1.0	7/31/2006 2:22:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-07A	S-7-0.5-1.0	7/31/2006 2:25:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	
06071057-08A	S-8-0.5-0.8	7/31/2006 2:30:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006	
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006	



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Aerotech Environmental, Inc.

11-Aug-06

Lab Order:

06071057

Client:

Kleinfelder

Project:

City of Tucson-Oil Mill/74053

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
06071057-08A	S-8-0.5-0.8	7/31/2006 2:30:00 PM	Soil	MERCURY, Total	8/3/2006 1:30:00 PM		8/3/2006
06071057-09A	S-9-0.5-1.0	7/31/2006 2:33:00 PM		ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-10A	S-10-0.5-1.0	7/31/2006 2:35:00 PM		MERCURY, Total	8/3/2006 1:30:00 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-11A	S-11-0.5-1.0	7/31/2006 2:40:00 PM		MERCURY, Total	8/3/2006 1:30:00 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-12A	S-12-0.5-1.0	7/31/2006 2:45:00 PM		MERCURY, Total	8/2/2006 4:58:09 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-13A	S-13-0.5-1.0	7/31/2006 2:50:00 PM		MERCURY, Total	8/3/2006 1:30:00 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-14A	S-14-0.5-1.0	7/31/2006 2:55:00 PM		MERCURY, Total	8/2/2006 4:58:09 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-15A	S-15-0.5-1.0	7/31/2006 3:00:00 PM		MERCURY, Total	8/3/2006 1:30:00 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
06071057-16A	S-16-0.5-1.0	7/31/2006 3:10:00 PM		MERCURY, Total	8/2/2006 4:58:09 PM		8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM		8/3/2006
				MERCURY, Total	8/3/2006 1:30:00 PM		8/3/2006



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11-Aug-06

DATES REPORT						
Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date
06071057-17A	S-17-0.5-1.0	7/31/2006 3:15:00 PM	Soil	ICP METALS	8/2/2006 4:58:09 PM	8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006
06071057-18A	S-18-0.5-1.0	7/31/2006 3:20:00 PM		ICP METALS	8/2/2006 4:58:09 PM	8/3/2006
				ICP METALS	8/2/2006 4:58:09 PM	8/3/2006
				MERCURY, Total	8/3/2006 1:30:00 PM	8/3/2006



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CLIENT: Kleinfelder

Work Order: 06071057

Project: City of Tucson-Oil Mill/74053

Date: 11-Aug-06

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID:	MB-26512	SampType:	MBLK	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:		Batch ID:	26512	TestNo:	SW6010B			Analysis Date:	8/3/2006	SeqNo:	917396	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	<5.0	5.0										
Barium	<5.0	5.0										
Cadmium	<0.50	0.50										
Chromium	<2.0	2.0										
Lead	<5.0	5.0										
Selenium	<5.0	5.0										
Silver	<2.5	2.5										

Sample ID:	LCS-26512	SampType:	LCS	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:		Batch ID:	26512	TestNo:	SW6010B			Analysis Date:	8/3/2006	SeqNo:	917393	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.90	5.0	25	0	99.6	80	120					
Barium	24.05	5.0	25	0	96.2	80	120					
Cadmium	23.20	0.50	25	0	92.8	80	120					
Chromium	23.80	2.0	25	0	95.2	80	120					
Lead	23.35	5.0	25	0	93.4	80	120					
Selenium	22.75	5.0	25	0	91.0	80	120					
Silver	23.50	2.5	25	0	94.0	80	120					

Sample ID:	LCSD-26512	SampType:	LCSD	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:		Batch ID:	26512	TestNo:	SW6010B			Analysis Date:	8/3/2006	SeqNo:	917394	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	23.85	5.0	25	0	95.4	80	120	24.90	4.31	20		
Barium	24.10	5.0	25	0	96.4	80	120	24.05	0.208	20		
Cadmium	23.05	0.50	25	0	92.2	80	120	23.20	0.649	20		

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

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CLIENT: Kleinfelder
Work Order: 06071057
Project: City of Tucson-Oil Mill/74053

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID:	LCSD-26512	SampType:	LCSD	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:	Batch ID: 26512		TestNo: SW6010B					Analysis Date:	8/3/2006	SeqNo:	917394	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	23.70	2.0	25	0	94.8	80	120	23.80	0.421	20		
Lead	23.45	5.0	25	0	93.8	80	120	23.35	0.427	20		
Selenium	23.05	5.0	25	0	92.2	80	120	22.75	1.31	20		
Silver	23.50	2.5	25	0	94.0	80	120	23.50	0	20		
Sample ID:	06071057-01A MSD	SampType:	MS	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:	S-1-0.5-1.0		Batch ID: 26512	TestNo: SW6010B				Analysis Date:	8/3/2006	SeqNo:	917366	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	75.50	5.0	25	41.40	136	75	125			M6		
Barium	100.5	5.0	25	94.50	24.0	75	125			M7		
Cadmium	39.40	0.50	25	19.25	80.6	75	125					
Chromium	26.00	2.0	25	5.300	82.8	75	125					
Selenium	17.35	5.0	25	0	69.4	75	125					
Silver	26.60	2.5	25	2.565	96.1	75	125					
Sample ID:	06071057-01A MSD	SampType:	MS	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77159	
Client ID:	S-1-0.5-1.0		Batch ID: 26512	TestNo: SW6010B				Analysis Date:	8/3/2006	SeqNo:	917439	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15180	25	25	6575	34400	75	125			M3		
Sample ID:	06071057-01A MSD	SampType:	MSD	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:	S-1-0.5-1.0		Batch ID: 26512	TestNo: SW6010B				Analysis Date:	8/3/2006	SeqNo:	917367	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	66.50	5.0	25	41.40	100	75	125	75.50	12.7	20		
Barium	92.50	5.0	25	94.50	-8.00	75	125	100.5	8.29	20	M6	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

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CLIENT: Kleinfelder
Work Order: 06071057
Project: City of Tucson-Oil Mill/74053

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID:	06071057-01A MSD	SampType:	MSD	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77155	
Client ID:	S-1-0.5-1.0	Batch ID:	26512	TestNo:	SW6010B			Analysis Date:	8/3/2006	SeqNo:	917367	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	41.35	0.50	25	19.25	88.4	75	125	39.40	4.83	20		
Chromium	26.95	2.0	25	5.300	86.6	75	125	26.00	3.59	20		
Selenium	19.55	5.0	25	0	78.2	75	125	17.35	11.9	20		
Silver	25.90	2.5	25	2.565	93.3	75	125	26.60	2.67	20		
Sample ID:	06071057-01A MSD	SampType:	MSD	TestCode:	6010B_S	Units:	mg/Kg	Prep Date:	8/2/2006	RunNo:	77159	
Client ID:	S-1-0.5-1.0	Batch ID:	26512	TestNo:	SW6010B			Analysis Date:	8/3/2006	SeqNo:	917440	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6050	25	25	6575	-2100	75	125	12600	70.2	20	M3,R9	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

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CLIENT: Kleinfelder

Work Order: 06071057

Project: City of Tucson-Oil Mill/74053

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471A_S

Sample ID:	SampType:	MBLK	TestCode:	7471A_S	Units:	mg/Kg	Prep Date:	8/3/2006	RunNo:	77167		
Client ID:	Batch ID:	26516	TestNo:	SW7471A			Analysis Date:	8/3/2006	SeqNo:	917561		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		<0.10	0.10									
Sample ID:	LCS-26516	SampType:	LCS	TestCode:	7471A_S	Units:	mg/Kg	Prep Date:	8/3/2006	RunNo:	77167	
Client ID:	Batch ID:	26516	TestNo:	SW7471A				Analysis Date:	8/3/2006	SeqNo:	917562	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.733	0.10	1.668	0	104	85	115				
Sample ID:	LCSD-26516	SampType:	LCSD	TestCode:	7471A_S	Units:	mg/Kg	Prep Date:	8/3/2006	RunNo:	77167	
Client ID:	Batch ID:	26516	TestNo:	SW7471A				Analysis Date:	8/3/2006	SeqNo:	917563	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.717	0.10	1.668	0	103	85	115	1.733	0.966	20	
Sample ID:	06071057-01AMS	SampType:	MS	TestCode:	7471A_S	Units:	mg/Kg	Prep Date:	8/3/2006	RunNo:	77167	
Client ID:	S-1-0.5-1.0	Batch ID:	26516	TestNo:	SW7471A			Analysis Date:	8/3/2006	SeqNo:	917565	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		2.517	0.10	1.668	0.3950	127	85	115				M6
Sample ID:	06071057-01AMSD	SampType:	MSD	TestCode:	7471A_S	Units:	mg/Kg	Prep Date:	8/3/2006	RunNo:	77167	
Client ID:	S-1-0.5-1.0	Batch ID:	26516	TestNo:	SW7471A			Analysis Date:	8/3/2006	SeqNo:	917566	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		2.083	0.10	1.668	0.3950	101	85	115	2.517	18.8	20	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Laboratory Number: 06-09-1057	Checklist completed by: RF/R 8/1/06
Client Name: Klein Selder	Signature/Date
Matrix: 601	Carrier Name: 52 Date/Time Rec'd: 8/1/06 11:13 By: RF
Temperature of Samples? 20.3°C Circle one: Blue Ice Wet Ice Not Present	

	Yes	No*	Not Present	Soil Containers:
Shipping container/cooler in good condition?	X			Brass Sleeve X
Custody seals intact on shipping container/cooler?	X			Glass Jar
Custody seals intact on sample containers?		X		Methanol
Chain of Custody present and relinquished/received properly?	X			Plastic Bag
Chain of Custody agrees with sample labels?	X			Encore Samplers
Samples in proper containers/bottles?	X			
Sample containers intact?	X			
All samples received within holding time?	X			**See Comment about Chlorine and pH
Is there sufficient sample volume to perform the tests?	X			
40mL vials for volatiles & SOC's received with zero headspace?	X			

Total number of bottles received: 18	IH sample media:
If applicable, how many sample bottles were shipped from AEL-Tucson? N/A X	

Number of containers received by preservative and by sample number: (If more than 15 samples are rec'd, please continue on separate sheet(s))

Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-General	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B-HNO3															
C-H2SO4															
D-HCl															
E-Na2S2O3															
F-NaOH															
G-Sulfide															
H-Na Sulfite															
I-MCAA															
J-Methanol															
K-HAA															
L-Other															

Water-pH acceptable upon receipt?	Yes	No	N/A X
-----------------------------------	-----	----	-------

Preservative & pH	pH of samples upon receipt	If pH requires adjustment, list sample number, and reagent ID. number
Metals <2		
Nutrients <2		
Total Phenols <2		
413 (O&G) <2		
418 (TPH) <2		
Cyanide >12		
Sulfide >9		

*Any No response must be detailed in the comments section below. Contact the PM immediately to determine how to proceed.
Refer to SOP 11-001.04, Section 1.8.6. Continue on back if additional space is needed.

**The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate result, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling.

Comments:

Corrective Action:

Workorder # 26-02-1057

Number of containers received by preservative (by sample number):

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[] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027 623.780.4800 - FAX 623.445.6192

[] Tucson - 4455 S. Park Ave, Suite 110, Tucson, AZ 85714 520.807.3801 - FAX 520.807.3803

www.aerenvirolabs.com or call toll-free 866.772.5227

Lab Number:

06071057

Customer Number:	Page <u>1</u> of <u>2</u>
Customer:	<u>Knudsen, Eric</u>
Address:	<u>2015 N. Forbes Blvd</u>
City, State, Zip:	<u>Tucson, AZ 85714</u>
Contact:	<u>Bkt Smith</u>
Phone:	<u>520-367-1507</u>
Fax:	<u>520-628-2835</u>
E-Mail Address:	<u>E-Mail Results: <input checked="" type="checkbox"/> N rasmith@knudsen.com</u>

Sample Receipt Turn Around Request

Temperature <u>50</u> °C	24 Hours	48 Hours
Custody Seals: Yes <u>Y</u>	No <u>N</u>	72 Hours
Custody Seals Intact: Yes <u>Y</u>	No <u>N</u>	5 Working Days
Total # of Containers: <u>18</u>	X Standard 10 Working Days	Subject to scheduling & availability (surcharges apply).

RCA/Monk
Analyses Requested

Lab #	Sample Identification	Date	Time	Type	# of samples	Containers
1	S-1-0.5-1.0	7/3/06	13:35	Soil		
2	S-2-0.5-1.0	7/3/06	14:00			
3	S-3-0.5-1.0	7/3/06	14:10			
4	S-4-0.5-1.0	7/3/06	14:15			
5	S-5-0.5-1.0	7/3/06	14:20			
6	S-6-0.5-1.0	7/3/06	14:22			
7	S-7-0.5-1.0	7/3/06	14:25			
8	S-8-0.5-1.0	7/3/06	14:30			
9	S-9-0.5-1.0	7/3/06	14:33			
10	S-10-0.5-1.0	7/3/06	14:35	Soil		

Instructions / Special Requirements: *Spec sheet pg 2 of 2*

Date: 7/3/06 Time: 15:10 Samples Relinquished By: *K. Knudsen*

Received By: *K. Knudsen*



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Aerotech Laboratories, Inc.

[] Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 623.445.6192

[] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027 623.780.4800 - FAX 623.445.6216

[] Tucson - 4455 S. Park Ave, Suite 110, Tucson, AZ 85714 520.807.3801 - FAX 520.807.3803

www.aerenvirolabs.com or call toll-free 866.772.5227

Lab Number:

06091057

Customer Number:
Customer: *Kirk Smith*

Page 2 of 2

Sampler: *Kirk Smith*

Project Name: *City of Phoenix - Dept. M711*

City, State, Zip: *Tucson AZ 85745*

Contact: *Kirk Smith*

P.O. Number:

Phone: 520-362-1509 Fax: 520-528-7823

E-Mail Address:

Fax Results: Y N

E-Mail Results: Y N

Temperature 20-3 °C
Custody Seals: Yes X No
Custody Seals Intact: Yes No
Total # of Containers: 18

Subject to scheduling & availability (surcharges apply).

Sample Information

Sample Receipt

Turn Around Request

24 Hours

48 Hours

72 Hours

5 Working Days

Standard 10 Working Days

Analyses Requested

of sample containers

DW - Drinking Water

WW - Waste Water

HW - Hazardous Waste

A - Air

S - Soil

Other _____

Instructions / Special Requirements:

If you samples are delayed, please call Kirk Smith for assistance. Thanks.

Date:	Time:	Samples Relinquished By:	Received By:
<i>7/16/06</i>	<i>1610</i>	<i>Kirk Smith</i>	<i>J. H. Kelly</i>